Moonlighting transcriptional activation function of a fungal sulfur metabolism enzyme

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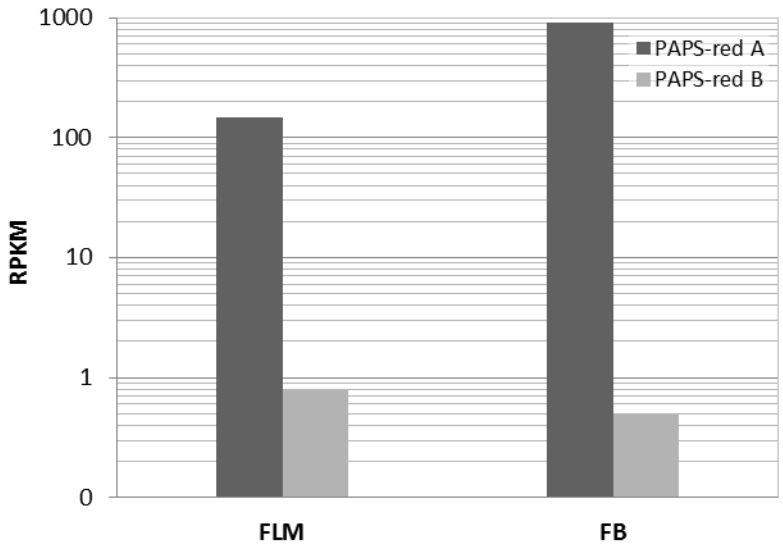
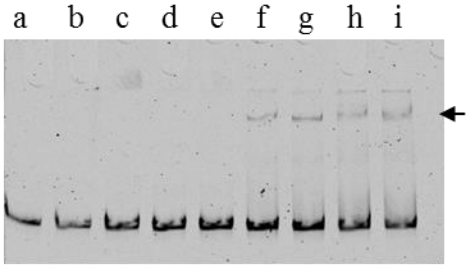


Supplementary Figure S1. Expression levels of *T. melanosporum* PAPS reductases (PAPS-red A and B) in different life cycle stages. RPKM: Reads Per Kilobase per Million mapped reads, plotted on a logarithmic scale. FLM: free-living mycelium; FB: fruiting-body



Supplementary Figure S2. Gel mobility-shift assay of PAPS-red A in presence of DNA. Purified, recombinantly expressed GST-PAPS-red A fusion protein (100, 200, 300 and 400 ng; *lanes f-i*, respectively) was tested for its ability to bind DNA by incubation with a fixed amount (4 ng) of a fluorescently labeled *270bp* DNA fragment. GST alone (same amounts as GST-PAPS-red A; *lanes b-e*) and DNA without any added protein served as controls for this experiment. A gel-shifted DNA band only detected in *lanes f-i* and corresponding to a more slowly migrating GST-PAPS-red A-DNA complex, is marked with an arrow.